

**Flood Control Project Maintenance
Levee Inspections**

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0017	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 0017 Mossdale	M *	16.24						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.03		0.03	0.19%	0.03	0.25		
Trim / Thin Trees	0.01		0.01	0.06%				
Encroachments		0.01	0.04	0.25%	0.03	0.04		
<i>Supplemental</i>								
DWR Erosion Survey	0.01	0.02	0.09	0.55%				
<i>LMA Totals:</i>	0.05	0.03	0.17	1.05% *	0.06	0.29	0.00	0.00
Unit No. 01 French Camp Slough LB	Overall Unit Rating	Total Unit Miles						
RD0017	A	1.79						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
Unit No. 02 San Joaquin River RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD0017	M *	14.45						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.03		0.03	0.21%	0.03	0.25		
Trim / Thin Trees	0.01		0.01	0.07%				
Encroachments		0.01	0.04	0.28%	0.03	0.04		
<i>Supplemental</i>								
DWR Erosion Survey	0.01	0.02	0.09	0.62%				
<i>Unit Totals:</i>	0.05	0.03	0.17	1.18% *	0.06	0.29	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2012 Levee Inspection Results

Reclamation District No. 0017 Mossdale

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 0017 Mossdale

Waterway			Bank	Unit Miles
Unit No. 01 French Camp Slough			Left	1.79
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/27/2012 - 03/27/2012		10/02/2012 - 10/02/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Robert Winter KSN Engineering		Robert Winter KSN Engineering	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 French Camp Slough						Left	1.79	10/02/2012 10/02/2012	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		°	°	3
DWR ID: DWR_RD0017_01_s_2012_3										
2	0.00	0.00	Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	4
DWR ID: DWR_RD0017_01_s_2012_4										
3	0.00	0.00	Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	5
DWR ID: DWR_RD0017_01_s_2012_5										
4	0.00	1.79	Earthen Levee	Vegetation	WS	A Ma	V7 : Trees / Woody Vegetation	°	°	1
DWR ID: DWR_RD0017_01_f_2012_1										
5	0.00	1.79	Earthen Levee	Vegetation	LS	A Ma	V7 : Trees / Woody Vegetation Inspector Comments: District has corrected previous deficiencies.	°	°	2
DWR ID: DWR_RD0017_01_f_2012_2										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.79	10/02/2012 10/02/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	1.79
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of waterside slope.

richard_f_20121012_187.JPG



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	1.79
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of landside slope.

richard_f_20121012_188.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 0017 Mossdale

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Right	14.45
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	03/27/2012 - 03/27/2012		10/02/2012 - 10/02/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Robert Winter KSN Engineering		Robert Winter KSN Engineering	

Summer & Winter Inspections

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- b) any changes other than the results of normal maintenance
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River					Right	14.45	10/02/2012 10/02/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.07	0.07	Earthen Levee	Animal Control	LS	A/W Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.915161 ° -121.321595 °	37.915161 ° -121.321595 °	7
DWR ID: DWR_RD0017_02_s_2012_7										
2	0.46	0.46	Earthen Levee	Animal Control	LS	A/W Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.910190 ° -121.324424 °	37.910190 ° -121.324424 °	8
DWR ID: DWR_RD0017_02_s_2012_8										
3	0.83	0.83	Earthen Levee	Encroachments	LS	M En	CR : Crops Inspector Comments: New cactus plantings at landside toe of levee eight feet from landowner fence.	37.905372 ° -121.322727 °	37.905372 ° -121.322727 °	10 Y
DWR ID: DWR_RD0017_02_s_2012_10										
4	1.08	1.08	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The erosion is nearly verticle, and has developed upward to halfway of the levee slope. The protecting concrete blocks have been washed away. Animal activities are visible. [2012 Site ID:RD0017U02RM44.32]	37.902530 ° -121.325690 °	37.902530 ° -121.325690 °	5 Y
DWR ID:										
5	1.19	1.19	Earthen Levee	Encroachments	LS	M En	PR : Prunings	37.901047 ° -121.325525 °	37.901047 ° -121.325525 °	12
DWR ID: DWR_RD0017_02_s_2012_12										
6	3.46	3.46	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The erosion is immediately upstream of riprap protection section. The possible cause of the erosion is the rainfall runoff washout. [2012 Site ID:RD0017U02RM46.73]	37.870560 ° -121.329120 °	37.870560 ° -121.329120 °	6 Y
DWR ID:										
7	4.24	4.27	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	37.863819 ° -121.320784 °	37.863601 ° -121.320299 °	48 Y
DWR ID: DWR_RD0017_02_s_2012_48										
8	4.28	4.32	Earthen Levee	Encroachments	LS	U En	CR : Crops	37.863582 ° -121.320230 °	37.862947 ° -121.319812 °	11 Y
DWR ID: DWR_RD0017_02_s_2012_11										
9	4.42	4.44	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	37.861673 ° -121.320115 °	37.861370 ° -121.320102 °	1 Y
DWR ID: DWR_RD0017_02_s_2012_1										
10	4.46	4.46	Earthen Levee	Trim / Thin Trees	LS	A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.861223 ° -121.319957 °	37.861223 ° -121.319957 °	2
DWR ID: DWR_RD0017_02_s_2012_2										
11	5.01	5.01	Earthen Levee	Encroachments	LS	M En	PR : Prunings	37.855343 ° -121.319845 °	37.855343 ° -121.319845 °	3
DWR ID: DWR_RD0017_02_s_2012_3										
12	5.43	5.43	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/07/2012: Erosion is underneath an irrigation pipe. The likely cause of the erosion is the pipe leakage. [2012 Site ID:RD0017U02RM45.97]	37.880320 ° -121.333266 °	37.880320 ° -121.333266 °	14 Y
DWR ID:										
13	5.55	5.55	Earthen Levee	Trim / Thin Trees	LS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.850652 ° -121.320498 °	37.850652 ° -121.320498 °	568
DWR ID: DWR_RD0017_02_s_2012_568										

*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/02/2012 10/02/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
14	5.58	5.58	Earthen Levee	Animal Control	LS A/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.850118 ° -121.320188 °	37.850118 ° -121.320188 °	76 Y
DWR ID: DWR_RD0017_02_s_2012_76									
15	5.62	5.85	Earthen Levee	Vegetation	LS U En	V6 : Landscaping	37.849472 ° -121.320159 °	37.848582 ° -121.323647 °	54 Y
DWR ID: DWR_RD0017_02_s_2012_54									
16	5.77	5.77	Earthen Levee	Vegetation	WSA/W Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.849267 ° -121.322590 °	37.849267 ° -121.322590 °	19 Y
DWR ID: DWR_RD0017_02_s_2012_19									
17	6.82	7.07	Earthen Levee	Encroachments	LS A/W En	CR : Crops Inspector Comments: alfafa five feet from levee toe.	37.838668 ° -121.316663 °	37.835402 ° -121.315262 °	13 Y
DWR ID: DWR_RD0017_02_s_2012_13									
18	7.51	7.51	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.830350 ° -121.310880 °	37.830350 ° -121.310880 °	4 Y
DWR ID: DWR_RD0017_02_s_2012_4									
19	7.67	7.69	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.828095 ° -121.309945 °	37.827920 ° -121.309847 °	25 Y
DWR ID: DWR_RD0017_02_s_2012_25									
20	9.40	9.40	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.815243 ° -121.317470 °	37.815243 ° -121.317470 °	9 Y
DWR ID: DWR_RD0017_02_s_2012_9									
21	12.47	12.47	Earthen Levee	Encroachments	WS U Ma	PI : Pipe Inspector Comments: Non-functioning irrigation pipe	37.791269 ° -121.306252 °	37.791269 ° -121.306252 °	569 Y
DWR ID: DWR_RD0017_02_f_2012_569									
22	13.43	13.43	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.779633 ° -121.299992 °	37.779633 ° -121.299992 °	570 Y
DWR ID: DWR_RD0017_02_s_2012_570									
23	14.02	14.26	Earthen Levee	Animal Control	WSA/W Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.774285 ° -121.295703 °	37.773138 ° -121.291763 °	37 Y
DWR ID: DWR_RD0017_02_s_2012_37									
24	14.04	14.44	Earthen Levee	Animal Control	LS A/W Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.774262 ° -121.295305 °	37.772163 ° -121.289295 °	38 Y
DWR ID: DWR_RD0017_02_s_2012_38									

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/02/2012 10/02/2012	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at new cactus plantings on landside toe.

jhirabay_f_20121001_003.jpg



Levee Mile Report Line	4
Start Levee Mile	1.08
End Levee Mile	1.08
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of erosion site. Note the concrete blocks and vegetation.

SJR2012_RD0017U02RM44.32_1.jpg



Levee Mile Report Line	6
Start Levee Mile	3.46
End Levee Mile	3.46
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Note the riprap protection next to the site.

SJR2012_RD0017U02RM46.73_1.jpg



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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/02/2012 10/02/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	4.24
End Levee Mile	4.27
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at dense ground cover on landside slope.

jhirabay_f_20121001_009.jpg



Levee Mile Report Line	8
Start Levee Mile	4.28
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Grape vines on landside slope from LM 4.28 to 4.32

jhirabay_f_20121001_004.jpg



Levee Mile Report Line	8
Start Levee Mile	4.28
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at grape vines on landside slope

jhirabay_f_20121001_005.jpg



*** Location**

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CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/02/2012 10/02/2012	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	4.28
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at landscaping with grape vines on landside slope

jhirabay_f_20121001_006.jpg



Levee Mile Report Line	8
Start Levee Mile	4.28
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at dense landscaping on landside slope.

jhirabay_f_20121001_007.jpg



Levee Mile Report Line	9
Start Levee Mile	4.42
End Levee Mile	4.44
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at ground cover on landside slope.

jhirabay_f_20121001_001.jpg



*** Location**

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WS : Water Side
CR : Crown

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N : Not Inspected/Rated
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/02/2012 10/02/2012	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	4.42
End Levee Mile	4.44
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at landscaping and boat dock on waterside slope and channel.

jhirabay_f_20121001_002.jpg



Levee Mile Report Line	12
Start Levee Mile	5.43
End Levee Mile	5.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the erosion and the pipe

SJR2012_RD0017U02RM45.97_1.jpg



Levee Mile Report Line	15
Start Levee Mile	5.62
End Levee Mile	5.85
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at overgrown landscaping on waterside slope.

jhirabay_f_20121001_010.jpg



*** Location**

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WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/02/2012 10/02/2012	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	5.62
End Levee Mile	5.85
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at landscaping on waterside slope.

jhirabay_f_20121001_011.jpg



Levee Mile Report Line	19
Start Levee Mile	7.67
End Levee Mile	7.69
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Elderberry blocking view of landside slope and toe from LM 7.67 to 7.69

jhirabay_f_20121001_008.jpg



Levee Mile Report Line	21
Start Levee Mile	12.47
End Levee Mile	12.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking west at disconnected pipe on waterside slope.

richard_f_20121008_051.JPG



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Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/02/2012 10/02/2012	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	12.47
End Levee Mile	12.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at siphon on waterside shoulder and slope.	
richard_f_20121008_052.JPG	



* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	N : Not Inspected/Rated	En : Enforcement
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	
	U : Unacceptable	